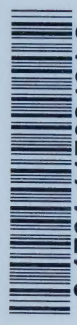


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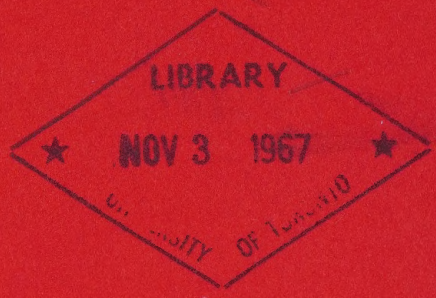
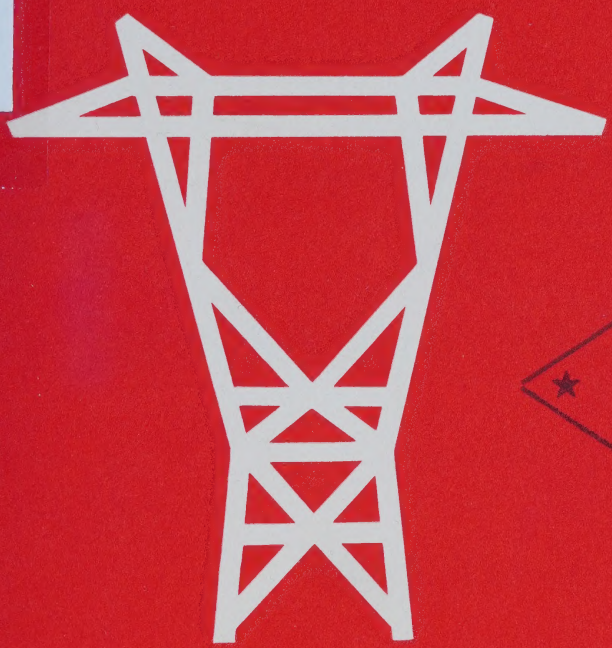
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Canada, Inland water branch

ELECTRIC POWER IN CANADA

MAP SUPPLEMENT • ATLANTIC PROVINCES

NOTE

Effective January 1, 1966, the Water Resources Branch was transferred from the Department of Northern Affairs and National Resources to the Department of Mines and Technical Surveys, pending the establishment by Parliament of the proposed new Department of Energy and Resources.



TRANSMISSION AND GENERATING FACILITIES

Atlantic Provinces

DEPARTMENT OF MINES AND TECHNICAL SURVEYS
WATER RESOURCES BRANCH



TRANSMISSION
AND
GENERATING FACILITIES

Atlantic Provinces

ROGER DUHAMEL, F.R.S.C.
Queen's Printer and Controller of Stationery
Ottawa, 1966

Cat. No. R32-866/5

HYDRO

HYDRO

No.	Development	River	Owner	Year Installed		Rated Head ft.	No. of Units	Turbines		Generators	
								Unit Capacity hp.	Total Capacity hp.	Unit Capacity kw.	Total Capacity kw.
				First Unit	Latest Unit						

New Brunswick

1	Beechwood	Saint John	NBEP	1957	1962	57	2	45,000 55,000	145,000	36,000 40,500	112,500
2	Grand Falls	Saint John	NBEP	1928	1931	125	4	20,000	80,000	15,750	63,000
3	Tinker	Aroostook	MNB	1906	1965	85	2 2 1	2,000 5,000 33,000	47,000	1,500 3,520 20,800	30,840
4	Tobique	Tobique	NBEP	1953	1953	75	2	13,500	27,000	10,000	20,000
5	Bathurst	Nepisiguit	BPP	1921	1929	108 110	2 1	5,000 5,000	15,500	3,600 3,600	10,800
6	Sisson	Tobique	NBEP	1965	1965	135	1	12,500	12,500	10,000	10,000
7	Musquash	Musquash	NBEP	1920	1920	99.5 124.5	2 1	3,670 3,760	11,100	2,320 2,320	6,960
8	Milltown	St. Croix	NBEP	1911	1962	21 25 1	3 1 1	1,080 500 468	4,208	770 376 350	3,036
9	Edmundston	Madawaska	FC	1918	1918	21.1	2	1,030	2,060	1,000	2,000

Total capacity of plants under 1,500 kw.

3,025

2,500

Total capacity of turbines connected directly to mechanical equipment

5,000

Total (all plants)

352,393

261,636

Nova Scotia

1	Deep Brook	Mersey	NSPC	1950	1950	46	2	6,400	12,800	4,500	9,000
2	Big Falls	Mersey	NSPC	1929	1929	58	2	6,350	12,700	4,500	9,000
3	Weymouth Falls	Sissiboo	NSPC	1960	-	122	1	12,000	12,000	9,000	9,000
4	Lower Lake Falls	Mersey	NSPC	1929	1929	48.5	2	5,300	10,600	3,690	7,380
5	Cowie Falls	Mersey	NSPC	1937	1937	43	2	5,100	10,200	3,600	7,200
6	Ruth Falls	East, Sheet Harbour	NSPC	1927	1936	110 109	2 1	3,290 4,300	10,880	2,000 2,970	6,970
7	Hells Gates	Black	NSLPC	1930	1949	185	1 1	4,500 4,500	9,000	3,360 3,570	6,930

HYDRO

No.	Development	River	Owner	Year Installed		Rated Head ft.	No. of Units	Turbines		Generators	
				First Unit	Latest Unit			Unit Capacity hp.	Total Capacity hp.	Unit Capacity kw.	Total Capacity kw.

NOVA SCOTIA (Cont'd)

8	Nictaux	Nictaux	NSLPC	1954	-	382	1	9,000	9,000	6,800	6,800
9	Gulch	Bear	NSPC	1956	-	225	1	8,500	8,500	6,000	6,000
10	Sissiboo Falls	Sissiboo	NSPC	1960	-	87	1	8,000	8,000	6,000	6,000
11	Upper Lake Falls	Mersey	NSPC	1929	1929	31.5	2	3,000	6,000	2,700	5,400
12	Hollow Bridge	Black	NSLPC	1940	-	148	1	7,500	7,500	5,312	5,312
13	Tidewater	North East	NSPC	1921	1921	91.5	2	3,450	6,900	2,320	4,640
14	Lower Great Brook	Mersey	NSPC	1955	1955	22	2	3,120	6,240	2,250	4,500
15	Ridge	Bear	NSPC	1957	-	140	1	5,300	5,300	4,000	4,000
16	Dickie Brook	Dickie Brook	NSPC	1948	1948	298	1 1	1,750 1,750	3,500	1,200 2,600	3,800
17	Avon No. 1	Avon	NSLPC	1958	-	117.5	1	5,000	5,000	3,750	3,750
18	Malay Falls	East, Sheet Harbour	NSPC	1924	1954	43 41	2 1	1,850 1,740	5,440	1,200 1,200	3,600
19	Paradise	Paradise Brook	NSLPC	1950	-	465	1	5,000	5,000	3,600	3,600
20	Methal's	Methal's Brook	NSLPC	1949	-	45	1	4,600	4,600	3,400	3,400
21	Sandy Lake	North East	NSPC	1927	1927	118	2	2,500	5,000	1,600	3,200
22	White Rock	Gaspeaux	NSLPC	1952	-	58	1	4,000	4,000	3,200	3,200
23	St. Croix	St. Croix	MBPP	1934	-	148	1	4,200	4,200	3,000	3,000
24	Avon No. 2	Avon	NSLPC	1929	-	142	1	3,900	3,900	3,000	3,000
25	Lumsden	Black	NSLPC	1942	-	72	1	4,500	4,500	2,800	2,800
26	Mill Lake	North East	NSPC	1921	1921	162.5	2	1,900	3,800	1,280	2,560
27	Tusket	Tusket	NSPC	1929	1929	18	3	940	2,820	720	2,160
28	Salmon Hole	St. Croix	MBPP	1938	-	75	1	2,500	2,500	2,000	2,000

Total capacity of plants under 1,500 kw. 6,550 4,708

Total capacity of turbines connected directly to mechanical equipment

Total (all plants) 196,430 142,910

HYDRO

No.	Development	River	Owner	Year Installed		Rated Head ft.	No. of Units	Turbines		Generators	
				First Unit	Latest Unit			Unit Capacity hp.	Total Capacity hp.	Unit Capacity kw.	Total Capacity kw.

Newfoundland

1	Twin Falls	Unknown	TFPC	1962	1963	290	4	60,000	240,000	46,800	187,200
2	Deer Lake	Humber	BPC	1925	1930	247	1 6 2	14,000 16,000 29,000	168,000	9,750 12,000 20,000	121,750
3	Grand Falls	Exploits	PPP	1909	1938	109	3 1	2,500 36,000	43,500	1,500 22,000	26,500
4	Menihek	Ashuanipi (Labrador)	IOCC	1954	1960	34 40	2 1	6,000 13,500	25,500	4,250 10,200	18,700
5	Bishops Falls	Exploits	PPP	1909	1952	35	7 2	2,700 1,700	22,300	2,025 1,500	17,175
6	Rattling Brook	Rattling Brook	NLPC	1958	1958	307	2	8,500	17,000	6,750	13,500
7	Mobile	Mobile	NLPC	1951	-	370	1	13,000	13,000	9,350	9,350
8	Watson's Brook	Corner Brook	BPC	1958	1958	559	2	6,000	12,000	4,600	9,200
9	Horse Chops	Horse Chops	NLPC	1953	-	276	1	10,000	10,000	7,650	7,650
10	Tors Cove	Tors Cove	NLPC	1942	1951	173	2 1	2,850 3,550	9,250	2,000 2,500	6,500
11	Cape Broyle	Horse Chops	NLPC	1952	-	176	1	7,600	7,600	6,000	6,000
12	Sandy Brook	Sandy Brook	NLPC	1963	-	115	1	8,000	8,000	5,950	5,950
13	Lookout Brook	Lookout Brook	WCPC	1945	1958	575	2 1	1,850 3,600	7,300	1,400 2,400	5,200
14	Petty Harbour	Petty Harbour	NLPC	1908	1926	190	2 1	2,100 2,750	6,950	1,600 1,800	5,000
15	New Chelsea	New Chelsea Brook	UTEC	1957	-	275	1	5,600	5,600	4,000	4,000
16	Seal Cove	Seal Cove	UTEC	1922	1927	190	1 1	1,500 3,040	4,540	1,200 2,400	3,600
17	Pierres Brook	Pierres Brook	NLPC	1931	-	263	1	4,500	4,500	3,200	3,200
18	Rocky Pond	Tors Cove	NLPC	1943	-	107	1	4,200	4,200	3,200	3,200
19	Lockston	Lockston	UELPC	1956	1961	270	2	2,000	4,000	1,480	2,960
20	Hearts Content	Hearts Content Brook	UTEC	1960	-	150	1	3,600	3,600	2,400	2,400
21	Buchans Brook	Buchans Brook	ASRC	1927	-	163	1	2,359	2,359	1,760	1,760

Total capacity of plants under 1,500 kw.

7,690

5,440

Total capacity of turbines connected directly to mechanical equipment

22,000

Total (all plants)

648,889

466,235

THERMAL

No.	Station	Location	Owner	Year Installed		Fuel	Type of Prime Mover	Generators		
				First Unit	Latest Unit			No.	Unit Capacity kw.	Total Capacity kw.

New Brunswick

1	Grand Lake No. 2	Newcastle Creek	NBEP	1951	1963	Coal	S	2 1 1	5,000 15,000 60,000	85,000
2	Courtenay Bay	East Saint John	NBEP	1961	1965	Oil	S	1 1	50,000 13,365	63,365
3	Chatham	Chatham	NBEP	1948	1956	Coal, oil	S	1 1	12,500 20,000	32,500
4	Lancaster	Lancaster	IPP	1947	1960	Oil	S	1 1 1	2,000 10,000 12,500	24,500
5	Bathurst	Bathurst	BPPC	1937	1958	Coal, oil	S	1 1 1	6,000 7,600 7,000	20,600
6	Edmundston	Edmundston	FC	1949	1958	Coal, wood-waste	S	1 1 1	3,000 3,800 12,500	19,300
7	Grand Lake No. 1	Newcastle Creek	NBEP	1931	1944	Coal	S	1 1 1	2,500 6,250 7,500	16,250
8	Dock Street	Saint John	NBEP	1929	1947	Coal, oil	S	1 1	6,000 10,000	16,000
9	Dalhousie	Dalhousie	NBIP	1929	1937	Coal	S	1 1	6,000 8,000	14,000
10	Atholville	Atholville	FC	1929	1956	Coal, wood-waste	S	4 1 1	1,000 2,000 5,000	11,000
11	Newcastle	Newcastle	FC	1949	1949	Coal	S	1 1	2,000 2,500	4,500
12	Saint John	Saint John	ASR	1954	1962	Oil	S	1 1	2,500 1,000	3,500
13	Edmundston	Edmundston	ME	1947	1955	Oil	IC	2 1	690 1,876	3,256
14	Campbellton	Campbellton	LC	1946	1953	Oil	IC	1 1 1	240 1,136 1,360	2,736
15	Grand Manan	Grand Manan	NBEP	1957	1965	Oil	IC	1 1 1 1	200 250 700 500	1,650

Total capacity of plants 1,500 kw. and over (not listed above)

-

Total capacity of plants under 1,500 kw.

2,100

Total (all plants)

320,257

Nova Scotia

1	Lower Water Street	Halifax	NSLPC	1944	1959	Coal, oil	S	1 2 1 2	12,500 20,000 25,000 45,000	167,500
2	Tufts Cove	Tufts Cove	NSLPC	1965	-		S	1	100,000	100,000
3	Glance Bay	Glance Bay	SPCL	1932	1959	Coal	S	2 4	6,000 15,000	72,000
4	Trenton	Trenton	NSPC	1951	1959	Coal	S	2 2	10,000 20,000	60,000
5	Sydney	Sydney	DOSCO	1919	1943	Coal, oil, gas	S	1 2 1 1	7,600 3,000 5,000 16,000	34,600

THERMAL

No.	Station	Location	Owner	Year Installed		Fuel	Type of Prime Mover	Generators		
				First Unit	Latest Unit			No.	Unit Capacity kw.	Total Capacity kw.
NOVA SCOTIA (Cont'd)										
6	Harrison Lake	Maccan	NSPC	1926	1949	Coal	S	1 1 1 1	15,000 6,250 1,600 4,000	26,850
7	Port Hawkesbury	Point Tupper	NSP	1962	-	Coal	S	1	10,000	10,000
8	Brooklyn	Brooklyn	BMPC	1943	-	Oil, wood-waste	S	1	5,170	5,170
9	Dartmouth	Dartmouth	IOC	1965	-	Oil		1	3,750	3,750
10	King Street	Yarmouth	NSLPC	1937	1948	Oil	IC	1 1 2	320 400 600	1,920
Total capacity of plants 1,500 kw. and over (not listed above)										5,200
Total capacity of plants under 1,500 kw.										1,778
Total (all plants)										488,768

Prince Edward Island

1	Charlottetown	Charlottetown	MEC	1931	1963	Oil	S	1 1 2 1 1	1,500 4,000 7,500 10,000 20,000	50,500
2	Summerside	Summerside	MS	1940	1963	Oil	IC	1 2 1 1 2	200 250 555 1,135 2,250	6,890
Total capacity of plants 1,500 kw. and over (not listed above)										-
Total capacity of plants under 1,500 kw.										100
Total (all plants)										57,490

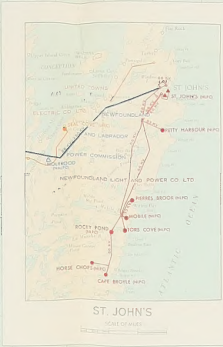
Newfoundland

1	St. John's	St. John's	NLPC	1957	1959	Oil	S	1 1	10,000 20,000	30,000
2	Grand Falls	Grand Falls	PPP	1930	1931	Oil	S	2	5,000	10,000
3	Tilt Cove	Tilt Cove	TCPC	1960	-	Oil	S	1	5,000	5,000
4	Wabush Lake	Wabush Lake	WM		1963	Oil	IC	4	1,000	4,000
5	Labrador City	Carol Lake	IOCC			Oil				3,910
6	Gander (Stand-by)	Gander	DOT	1948	1962	Oil	IC	3	1,000	3,000
7	St. John's	St. John's	NLPC	1956	-	Oil	IC	1	2,500	2,500
8	Port aux Basques	Port aux Basques	WCPC	1945	1964	Oil	IC	3 2 1 1	350 250 85 300	1,935
9	Salt Pond	Salt Pond	UTEC	1964	1964	Oil	IC	3	500	1,500
Total capacity of plants 1,500 kw. and over (not listed above)										4,000
Total capacity of plants under 1,500 kw.										9,392
Total (all plants)										75,237

IC - Internal Combustion, S - Steam

OWNER CODE INDEX

CODE	OWNER
ASR.....	Atlantic Sugar Refineries
ASRC.....	American Smelting and Refining Company Limited
BMPC.....	Bowaters Mersey Paper Company Limited
BPC.....	Bowater Power Company Limited
BPPC.....	Bathurst Power and Paper Company Limited
CC.....	City of Campbellton
DOSCO.....	Dominion Iron and Steel Company Limited
DOT.....	Department of Transport, Government of Canada
FC.....	Fraser Companies Limited
FMMC.....	First Maritime Mining Corporation
IOC.....	Imperial Oil Company Limited
IOCC.....	Iron Ore Company of Canada
IPP.....	Irving Pulp and Paper Limited
MBPP.....	Minas Basin Pulp and Power Company
ME.....	Municipality of Edmundston
MEC.....	Maritime Electric Company Limited
MNBP.....	Maine and New Brunswick Electrical Power Co. Ltd.
MS.....	Municipality of Summerside
NBEPC.....	New Brunswick Electric Power Commission
NBIPC.....	New Brunswick International Paper Company Limited
NLPC.....	Newfoundland Light and Power Company Limited
NSLPC.....	Nova Scotia Light and Power Company Limited
NSP.....	Nova Scotia Pulp Limited
NSPC.....	Nova Scotia Power Commission
PPP.....	Price (Nfld) Pulp and Paper Limited
SPCL.....	Seaboard Power Corporation Limited
TCPC.....	Tilt Cove Power Corporation
TFPC.....	Twin Falls Power Company Limited
UELPC.....	Union Electric Light and Power Company
UTEC.....	United Towns Electric Company Limited
WCPC.....	West Coast Power Company Limited
WM.....	Wabush Mines



DEPARTMENT OF MINERAL AND PETROLEUM RESOURCES
WATER RESOURCES BRANCH

ATLANTIC PROVINCES MAIN ELECTRIC TRANSMISSION SYSTEMS AND PRINCIPAL POWER GENERATING SYSTEMS

SCALE OF MILES
0 10 20 30 40 50 60 70 80 90 100

LEGEND

GENERATING STATIONS

Hydroelectric
Thermal
Nuclear

TRANSMISSION LINES

High voltage
Medium voltage
Low voltage

OWNERSHIP

Federal
Provincial
Municipal

DECEMBER 1961

